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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,343 10/11/2001		10/11/2001	Akira Ishikawa	06837-123002	1181
26161	7590	04/02/2003			
FISH & RI		SON PC	• EXAMINER		
225 FRANK BOSTON, N		0	RESAN, STEVAN A		
				ART UNIT	PAPER NUMBER
				1773	16
				DATE MAILED: 04/02/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

					AS-1
		Applicati	on No.	Applicant(s)	
•	•	09/975,3	43	ISHIKAWA ET AL.	
	Office Action Summary	Examine	r	Art Unit	
		Stevan A.	. Resan	1773	
P riod fo	The MAILING DATE of this commun or Reply	nication appears on the	e cover sheet v	with the correspondence addres	is
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st are to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no ev munication. 30) days, a reply within the stat tatutory period will apply and w y will, by statute, cause the app	vent, however, may a tutory minimum of th vill expire SIX (6) MC olication to become A	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	inication.
1)⊠	Responsive to communication(s) fi	iled on <u>28 August 200</u>)2 and 14 Janı	<u>uary 2003</u> .	
2a)⊠	This action is FINAL.	2b) This action is	non-final.		
3) 🗌 Dispositi	Since this application is in condition closed in accordance with the praction of Claims				erits is
•	Claim(s) <u>1,2,5,6 and 9-36</u> is/are pe	nding in the application	on.		
	4a) Of the above claim(s) is/a				
	Claim(s) <u>1,2,5,6,9,20 and 21</u> is/are				
· ·	Claim(s) <u>10,12-14,16-19,22-31 and</u>				
· <u> </u>	Claim(s) 11,15 and 32 is/are objected	-			
· _	Claim(s) are subject to restrict		equirement.		
	ion Papers		•		
9) 🗌 🤈	The specification is objected to by th	e Examiner.			
10) 🗌 .	The drawing(s) filed on is/are:	: a)□ accepted or b)□	objected to by	the Examiner.	
	Applicant may not request that any ob	jection to the drawing(s)) be held in abe	yance. See 37 CFR 1.85(a).	
11) 🗌 -	The proposed drawing correction file	ed on is: a)□ a	pproved b)	disapproved by the Examiner.	
	If approved, corrected drawings are re	equired in reply to this O	ffice action.		
12) 🗌 -	The oath or declaration is objected to	o by the Examiner.			
Priority u	ınder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim	n for foreign priority ur	nder 35 U.S.C	. § 119(a)-(d) or (f).	
a)[All b) Some * c) None of:				
	1. Certified copies of the priority	documents have bee	n received.		
	2. Certified copies of the priority	documents have bee	n received in	Application No	
* <u>c</u>	3. Copies of the certified copies application from the Interresee the attached detailed Office actions.	national Bureau (PCT	Rule 17.2(a))		je j
	Acknowledgment is made of a claim f				olication)
_a) The translation of the foreign lar	nguage provisional ap	oplication has	been received.	modition).
Attachment	Acknowledgment is made of a claim to the communities to the communities of the communitie	ioi domestic priority u	ш чы ээ U,Э. С	7. 33 120 aliu/Ul 121.	
	e of References Cited (PTO-892)		4) Distancion	v Summary (PTO-413) Paper No(s)	
2) Notic	e of References Cited (P10-692) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449) P			f Informal Patent Application (PTO-15)	

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- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Applicants refusal of the request to identify the most significant art is noted. The request arose from the desire of the examiner to advance prosecution and avoid inadvertently missing passages which were most significant and material to the prosecution which is more likely when a large number of references are submitted.
- 3. It is noted that this application appears to claim subject matter disclosed in prior Application No. 09/554678, filed 7-17-2000. A reference to the prior application must be inserted as the first sentence of the specification of this application. For benefit claims under 35 U.S.C. 120, the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of all nonprovisional applications. Also, the current status of all nonprovisional parent applications referenced should be included.
- 4. Claims 1,2,5,6,9,20 and 21 are deemed allowable
- 5. Claims 11,15, and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 27-30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. Claims 18,27-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 18 is deemed indefinite since it is not clear what regular patterns are encompassed which have "widths".

Claim 27 is deemed indefinite since it claims a metallic layer that contains depressions that comprise the servo pattern. However Claim 22 only claims the metallic layer "for use in producing a servo pattern" and therefore only limits an intended use and not the article itself.

Claims 28-30 are rejected for depending from a claim rejected under 35 USC 112.

- 8. Claims 10,19,22-24 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Henkes Jr. US 3239841 (See Figures 2a-2d.)
- 9. Claims 12-14,16-18,25-26,31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henkes Jr. as applied to claims 10,22 above, and further in view of Glenn Jr. US 3113179.

Henkes Jr. does not teach a thickness of less than 7 microns as in claims 14, 31.

However it would have been obvious to one of ordinary skill in the art to minimize thickness to maximize data which could be recorded on a given diameter reel.

Henkes Jr does not teach the coefficient of friction as in claim 16. However the use of a lubricant coating to regulate the coefficient of friction is old in the magnetic recording art. It would have been obvious to one of ordinary skill in the art to minimize the coefficient of friction on sliding surfaces by coating with a lubricant.

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Claim 18 appears within the normal range of dimensions of an optical servo track. It would have been obvious to one of ordinary skill in the art to adjust the servo track dimensions depending upon the servo beam tracking equipment used.

It also would have been obvious to one of ordinary skill in the art to apply a back coat layer (as in claim 17) in order to control static electrical buildup and to employ an intermediate layer between the substrate and magnetic layer (as in claims 25,26) in order to enhance adhesion or orientation of the magnetic layer as was known in the art at the time of the invention. Since color information was required on the metal layer of the Glenn Jr. media it would have been obvious to one of ordinary skill in the art to apply the pattern photographically in a color which maximized the sensitivity of the corresponding irradiated light wavelength (as in claims 12,13).

10. Claims 33-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over DiStefano et al US 4684547.

DiStefano et al discloses a magnetic tape (Fig. 1) comprising a magnetic layer on a recording side of a substrate and a metallic layer which may be deposited on the non magnetic recording side of the substrate (Col 2 lines 5-6; Col 5 lines 44-53).

Substitution of equivalents requires no express motivation as long as the prior art recognizes the equivalency.

In re Fount 213 USPQ 532 (CCPA 1982); In re Siebentritt 152 USPQ 618 (CCPA 1967): Graver Tank & Mfg. Co. Inc. v. Linde Air Products Co. 85 USPQ

328 (USSC 1950).

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The metallic layer having depressions comprising a servo pattern formed thereon and which patterned metallic layer may be over coated with a thin organic layer which thus would meet the limitation of claim 34. The examiner must give the claim its broadest interpretation and since the metallic layer is not claimed as continuous the metal pattern layer of DiStefino meets the claim language. However since DiStefino also teaches a metal layer beneath the metallic pattern layer it is also deemed to read on a continuous layer.

Claims 35,36 appear within the normal range of dimensions of an optical servo track. It would have been obvious to one of ordinary skill in the art to adjust the servo track dimensions depending upon the servo beam tracking equipment used.

- 11. Applicant's amendments and arguments with respect to original remaining claims 1,2,5,6,9 are persuasive as the depressions are <u>in</u> the metal layer and accordingly these claims have been deemed allowable. However applicant's arguments with respect to claim 10 have been considered but are moot in view of the new ground(s) of rejection which have also been applied to some of the newly added claims.
- 12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stevan A. Resan whose telephone number is (703) 308-4287. The examiner can normally be reached on Tues-Fri from 7:30AM to 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau, can be reached on (703) *308-2367. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7718

STEVAN A. RESAN PRIMARY EXAMINER